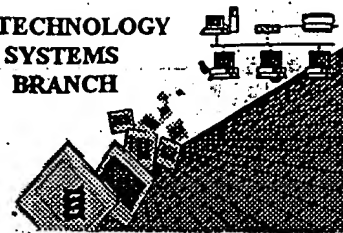


J. SEHAR: SEYON

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/720,540

Source: 1647

Date Processed by STIC: 5-20-02

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

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**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

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**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated address s:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
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4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

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See page 7



1647

## RAW SEQUENCE LISTING

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

3 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.  
 4 TANG, Y. Tom  
 5 LAL, Preeti  
 6 HILLMAN, Jennifer L.  
 7 YUE, Henry  
 8 GUEGLER, Karl J.  
 9 CORLEY, Neil C.  
 10 BANDMAN, Olga  
 11 PATTERSON, Chandra  
 12 GORGONE, Gina A.  
 13 KASER, Matthew R.  
 14 BAUGHN, Mariah R.  
 15 AU-YOUNG, Janice  
 17 <120> TITLE OF INVENTION: HUMAN TRANSMEMBRANE PROTEINS  
 19 <130> FILE REFERENCE: PF-0526 PCT  
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/09/700,590  
 C--> 22 <141> CURRENT FILING DATE: 2001-04-16  
 24 <150> PRIOR APPLICATION NUMBER: 60/087,260; 60/091,674; 60/102,954; 60/109,869  
 W--> 25 <151> PRIOR FILING DATE: 1998-05-29; 1998-07-02; 1998-10-02; 1998-11-24  
 27 <160> NUMBER OF SEQ ID NOS: 158  
 29 <170> SOFTWARE: PERL Program  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 240  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Homo sapiens  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: misc\_feature  
 38 <223> OTHER INFORMATION: Incyte Clone No: 153831  
 41 <400> SEQUENCE: 1  
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 43 1 5 10 15  
 44 His His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu  
 45 20 25 30  
 46 Gly Leu Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg  
 47 35 40 45  
 48 Thr Gly Leu Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe  
 49 50 55 60  
 50 Leu Arg Ser Phe Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr  
 51 65 70 75  
 52 Val Thr Gly Lys Trp Arg Gly Ser His Val Val Gly Leu Leu Thr  
 53 80 85 90  
 54 Thr Leu Asn Phe Gly Asp Gly Pro Asp Arg Asn Lys Thr Arg Thr  
 55 95 100 105

use separate  
<1507,1517> for  
each.

## RAW SEQUENCE LISTING

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

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56 Phe Gln Ala Thr Val Leu Gly Ser Gln Met Gly Leu Lys Gly Ser
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58 Ser Ala Gly Gln Leu Val Leu Ile Thr Ala Arg Val Thr Thr Glu
59          125          130          135
60 Arg Thr Ala Gly Thr Cys Leu Tyr Phe Ser Ala Val Pro Gly Ile
61          140          145          150
62 Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys Ser Glu Glu Gly Ala
63          155          160          165
64 Gly Asn Ala Thr Leu Ser Pro Arg Met Gly Glu Glu Cys Val Ser
65          170          175          180
66 Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu Leu Thr Ser
67          185          190          195
68 Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu Gly Ser
69          200          205          210
70 Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala Met
71          215          220          225
72 Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu
73          230          235          240
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79 <211> LENGTH: 100
80 <212> TYPE: PRT
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82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <223> OTHER INFORMATION: Incyte Clone No: 350629
88 <400> SEQUENCE: 2
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90 1 5 10 15
91 Pro Gly Lys Leu Asp Glu Glu Met Val Gly Leu Pro Pro His Asp
92 20 25 30
93 Ala Ser Pro Gln Val Thr Phe His Ser Leu Asp Gly Lys Thr Val
94 35 40 45
95 Val Cys Pro His Phe Met Gly Leu Leu Leu Gly Leu Leu Leu Leu
96 50 55 60
97 Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg Gly Glu Arg
98 65 70 75
99 Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys Ser Gln
100 80 85 90
101 Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp
102 95 100
107 <210> SEQ ID NO: 3
108 <211> LENGTH: 416
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <223> OTHER INFORMATION: Incyte Clone No: 729171
117 <400> SEQUENCE: 3
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## RAW SEQUENCE LISTING

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

119	1	5	10	15											
120	Pro	Glu	Ser	Pro	Val	Gly	Phe	Gly	His	Met	Ser	Thr	Thr	Gly	Cys
121				20						25					30
122	Val	Leu	Asn	Lys	Leu	Phe	Gln	Leu	Pro	Thr	Pro	Pro	Leu	Ser	Arg
123				35						40					45
124	His	Gln	Leu	Lys	Arg	Leu	Glu	Glu	His	Arg	Tyr	Gln	Ser	Ala	Gly
125				50						55					60
126	Arg	Ser	Leu	Leu	Glu	Pro	Leu	Val	Gln	Gly	Tyr	Trp	Glu	Trp	Leu
127				65						70					75
128	Val	Arg	Arg	Val	Pro	Ser	Trp	Ile	Ala	Pro	Asn	Leu	Ile	Thr	Ile
129				80						85					90
130	Ile	Gly	Leu	Ser	Ile	Asn	Ile	Cys	Thr	Thr	Ile	Leu	Leu	Val	Phe
131				95						100					105
132	Tyr	Cys	Pro	Thr	Ala	Thr	Glu	Gln	Ala	Pro	Leu	Trp	Ala	Tyr	Ile
133				110						115					120
134	Ala	Cys	Ala	Cys	Gly	Leu	Phe	Ile	Tyr	Gln	Ser	Leu	Asp	Ala	Ile
135				125						130					135
136	Gly	Gly	Lys	Gln	Ala	Arg	Arg	Thr	Asn	Ser	Ser	Ser	Pro	Leu	Gly
137				140						145					150
138	Glu	Leu	Phe	Asp	His	Gly	Cys	Asp	Ser	Leu	Ser	Thr	Val	Phe	Val
139				155						160					165
140	Val	Leu	Gly	Thr	Cys	Ile	Ala	Val	Gln	Leu	Gly	Thr	Asn	Pro	Asp
141				170						175					180
142	Trp	Met	Phe	Phe	Cys	Cys	Phe	Ala	Gly	Thr	Phe	Met	Phe	Tyr	Cys
143				185						190					195
144	Ala	His	Trp	Gln	Thr	Tyr	Val	Ser	Gly	Thr	Leu	Arg	Phe	Gly	Ile
145				200						205					210
146	Ile	Asp	Val	Thr	Glu	Val	Gln	Ile	Phe	Ile	Ile	Ile	Met	His	Leu
147				215						220					225
148	Leu	Ala	Val	Met	Gly	Gly	Pro	Pro	Phe	Trp	Gln	Ser	Met	Ile	Pro
149				230						235					240
150	Val	Leu	Asn	Ile	Gln	Met	Lys	Ile	Phe	Pro	Ala	Leu	Cys	Thr	Val
151				245						250					255
152	Ala	Gly	Thr	Ile	Phe	Pro	Val	Thr	Asn	Tyr	Phe	Arg	Val	Ile	Phe
153				260						265					270
154	Thr	Gly	Gly	Val	Gly	Lys	Asn	Gly	Ser	Thr	Ile	Ala	Gly	Thr	Ser
155				275						280					285
156	Val	Leu	Ser	Pro	Phe	Leu	His	Ile	Gly	Ser	Val	Ile	Thr	Leu	Ala
157				290						295					300
158	Ala	Met	Ile	Tyr	Lys	Lys	Ser	Ala	Val	Gln	Leu	Phe	Glu	Lys	His
159				305						310					315
160	Pro	Cys	Leu	Tyr	Ile	Leu	Thr	Phe	Gly	Phe	Val	Ser	Ala	Lys	Ile
161				320						325					330
162	Thr	Asn	Lys	Leu	Val	Val	Ala	His	Met	Thr	Lys	Ser	Glu	Met	His
163				335						340					345
164	Leu	His	Asp	Thr	Ala	Phe	Ile	Gly	Pro	Ala	Leu	Leu	Phe	Leu	Asp
165				350						355					360
166	Gln	Tyr	Phe	Asn	Ser	Phe	Ile	Asp	Glu	Tyr	Ile	Val	Leu	Trp	Ile
167				365						370					375

## RAW SEQUENCE LISTING

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

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168 Ala Leu Val Phe Ser Phe Phe Asp Leu Ile Arg Tyr Cys Val Ser
169           380           385           390
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171           395           400           405
173 Ile Lys Val Ser Thr Ala His Ser Asn His His
174           410           415
177 <210> SEQ ID NO: 4
178 <211> LENGTH: 224
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <223> OTHER INFORMATION: Incyte Clone No: 1273641
187 <400> SEQUENCE: 4
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189   1           5           10           15
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191           20           25           30
192 Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys
193           35           40           45
194 Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys
195           50           55           60
196 Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys
197           65           70           75
198 Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser
199           80           85           90
200 Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
201           95          100          105
202 Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
203          110          115          120
204 Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
205          125          130          135
206 Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
207          140          145          150
208 Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln
209          155          160          165
210 Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val
211          170          175          180
212 Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
213          185          190          195
214 Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val Gly Tyr
215          200          205          210
216 Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Leu Lys Ala
217          215          220
220 <210> SEQ ID NO: 5
221 <211> LENGTH: 247
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapiens
225 <220> FEATURE:

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## RAW SEQUENCE LISTING

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

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226 <221> NAME/KEY: misc_feature
227 <223> OTHER INFORMATION: Incyte Clone No: 1427389
230 <400> SEQUENCE: 5
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232   1           5           10           15
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234           20           25           30
235 Arg Val Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser
236           35           40           45
237 Leu Leu Leu Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr
238           50           55           60
239 Asp Arg Ser Asp Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly
240           65           70           75
241 Ala Ala Val Ser Val Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr
242           80           85           90
243 Tyr Lys Leu Leu Lys Lys Ala Asp Glu Gly Leu Ala Ser Leu Ser
244           95          100          105
245 Glu Asp Gly Arg Ser Pro Ile Ser Ile Arg Gln Met Ala Tyr Val
246          110          115          120
247 Ser Gly Leu Ser Phe Gly Ile Ile Ser Gly Val Phe Ser Val Ile
248          125          130          135
249 Asn Ile Leu Ala Asp Ala Leu Gly Pro Gly Val Val Gly Ile His
250          140          145          150
251 Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser Ala Phe Leu Thr Ala
252          155          160          165
253 Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val Val Phe Phe Asp
254          170          175          180
255 Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu Val Val Gly
256          185          190          195
257 Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro Trp Tyr
258          200          205          210
259 Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met Gly
260          215          220          225
261 Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
262          230          235          240
263 Arg Ser Leu Leu Cys Lys Asp
264          245
268 <210> SEQ ID NO: 6
269 <211> LENGTH: 72
270 <212> TYPE: PRT
271 <213> ORGANISM: Homo sapiens
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <223> OTHER INFORMATION: Incyte Clone No: 1458357
279 <400> SEQUENCE: 6
280 Met Tyr Trp Leu His Gln Asp Met Phe Trp Leu Leu Val Leu Ile
281   1           5           10           15
282 Leu Ile Cys Leu Val Thr His Leu Ile Thr Arg Glu Thr Ile Tyr
283           20           25           30

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002  
TIME: 10:12:27

Input Set : A:\pf0526usn.seqlist.txt  
Output Set: N:\CRF3\05302002\I700590.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; Xaa Pos. 434  
Seq#:101; N Pos. 2084,2101,2110,2128,2137,2156,2177,2226,2265,2296,2303  
Seq#:101; N Pos. 2310,2325  
Seq#:102; N Pos. 1346,1373,1430  
Seq#:119; N Pos. 1032,1037,1042  
Seq#:120; N Pos. 1893,1896,1899,1906,1911,1921,1926,1927,1928,1929,1932  
Seq#:120; N Pos. 1935,1940,1948,1950,1951,1953  
Seq#:134; N Pos. 814

## VARIABLE LOCATION SUMMARY

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:27

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

Use of n's or Xaa's (NEW RULES): ✓

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:23; Xaa Pos. 434

Seq#:101; N Pos. 2084,2101,2110,2128,2137,2156,2177,2226,2265,2296,2303

Seq#:101; N Pos. 2310,2325

Seq#:102; N Pos. 1346,1373,1430

Seq#:119; N Pos. 1032,1037,1042

Seq#:120; N Pos. 1893,1896,1899,1906,1911,1921,1926,1927,1928,1929,1932

Seq#:120; N Pos. 1935,1940,1948,1950,1951,1953

Seq#:134; N Pos. 814



## VERIFICATION SUMMARY

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:27

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:25 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:1055 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23  
L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420  
L:4462 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:101  
L:4507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2040  
L:4508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2100  
L:4509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2160  
L:4510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2220  
L:4511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2280  
L:4520 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:102  
L:4552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:1320  
L:4553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:1380  
L:5166 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:119  
L:5193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:1020  
L:5202 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:120  
L:5244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:1860  
L:5245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:1920  
L:5737 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:134  
L:5761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:780